

WHAT IS CLAIMED IS:

1. A portable acoustic apparatus from which a user receives sound by coupling it to a concha, said portable acoustic apparatus comprising:

5 a sound outlet provided in a front wall of a housing of said portable acoustic apparatus;

 an acoustic converting element fixed in said housing such that a front chamber is formed between said acoustic converting element and said front wall, and a back chamber is formed between
10 said acoustic converting element and a back wall of said housing;
and

 a duct that is provided in said front wall around said sound outlet, and that communicates to an outside of said housing, wherein

15 a minimum inner width of an outer casing of said housing is set at a value equal to or less than a standard diameter of a human concha.

2. The portable acoustic apparatus according to claim 1, wherein
20 said duct is formed at a location within half the standard diameter of the human concha from said sound outlet.

3. The portable acoustic apparatus according to claim 1, further comprising an acoustic resistance material for increasing an
25 acoustic resistance of said duct at an opening of said duct at an internal side of said housing.

4. The portable acoustic apparatus according to claim 2, further comprising an acoustic resistance material for increasing an
30 acoustic resistance of said duct at an opening of said duct at

an internal side of said housing.

5. A portable acoustic apparatus from which a user receives sound by coupling it to a concha, said portable acoustic

5 apparatus comprising:

a sound outlet provided in a front wall of a housing of said portable acoustic apparatus;

an acoustic converting element fixed in said housing such that a front chamber is formed between said acoustic converting
10 element and said front wall, and a back chamber is formed between said acoustic converting element and a back wall of said housing;
and

a duct that is provided in said front wall around said sound outlet, and that communicates to an outside of said housing,
15 wherein

a minimum inner width of an outer casing of said housing is set at a value equal to or greater than a standard diameter of a human concha, and

a distance between the center of said sound outlet and an
20 internal side of said outer casing is less than half the standard diameter at least in some part.

6. The portable acoustic apparatus according to claim 5, wherein said duct is formed at a location within half the standard
25 diameter of the human concha from said sound outlet.

7. The portable acoustic apparatus according to claim 5, further comprising an acoustic resistance material for increasing an acoustic resistance of said duct at an opening of said duct at
30 an internal side of said housing.

8. The portable acoustic apparatus according to claim 6, further comprising an acoustic resistance material for increasing an acoustic resistance of said duct at an opening of said duct at
5 an internal side of said housing.